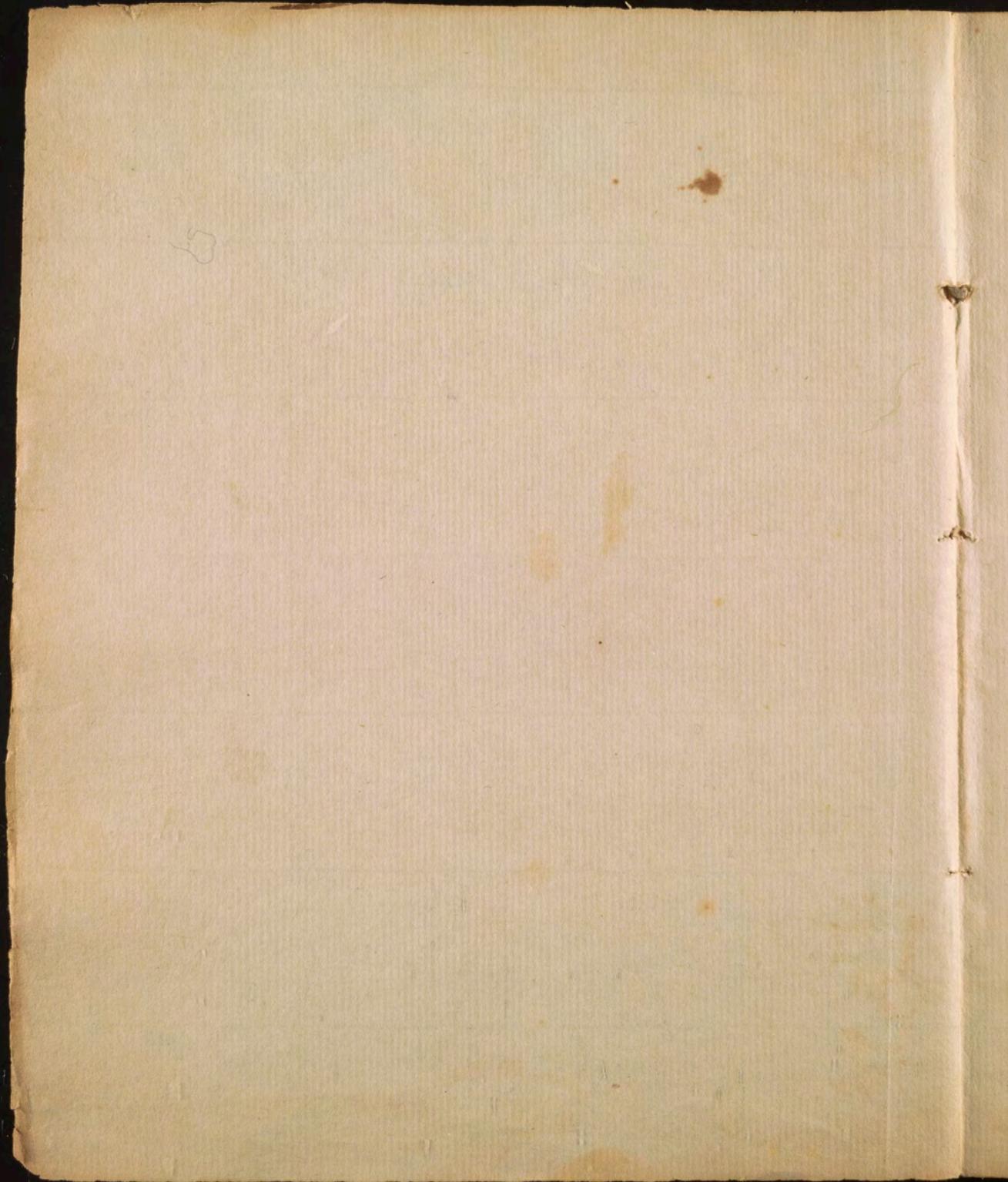


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on syncope, and  
suspended animation.





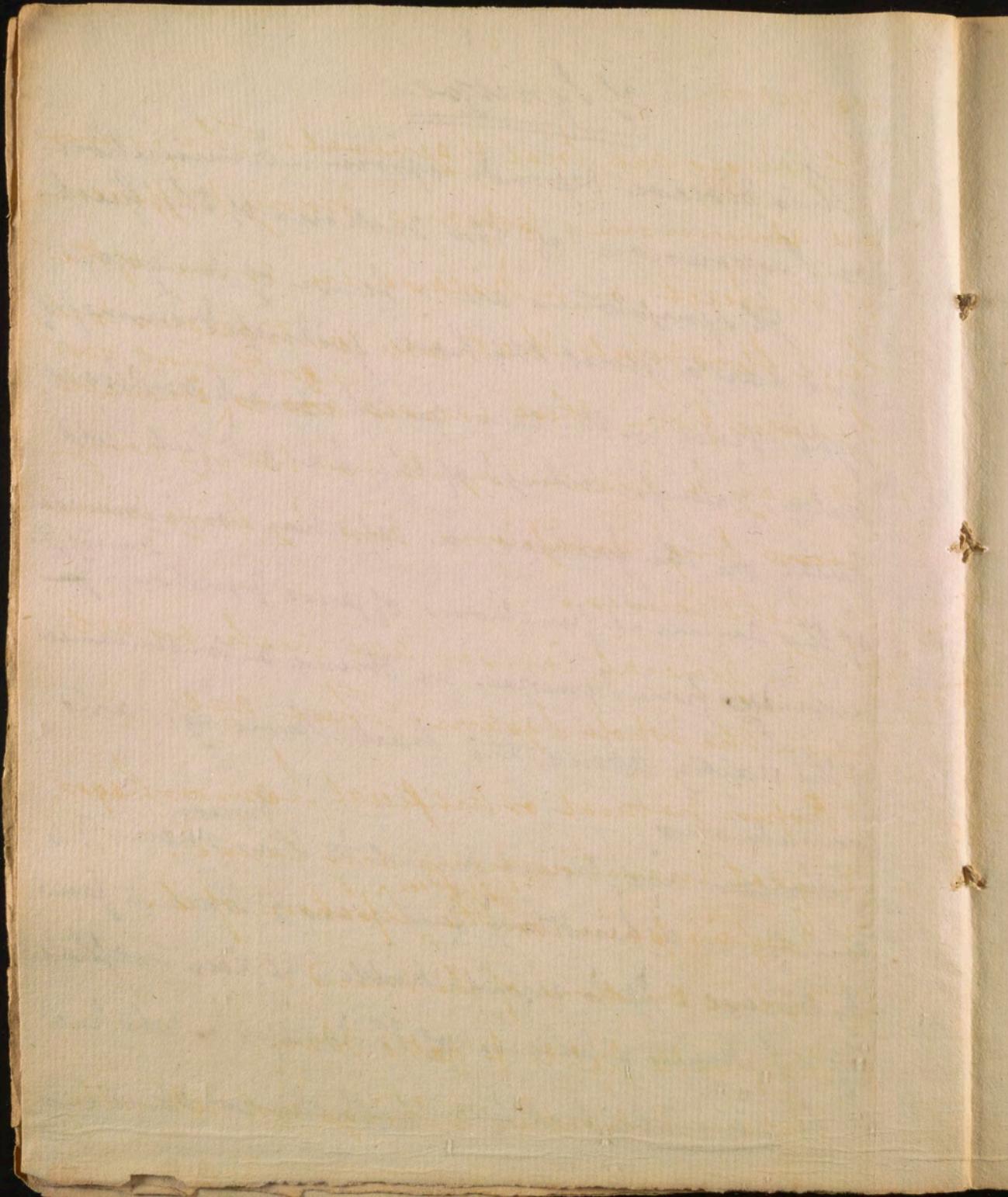
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## of Syncope

This disease depends upon a diminution or suspension of the motions of the heart.

Its symptoms are a sense of languor, and anxiety about the heart, giddiness & dimness of sight, noise in the ears, quick, weak or absent pulse, paleness, coldness of the hands & feet, cold sweat on the forehead, a cessation or suspension of the animal functions of sense & motion. During the recovery from syncope, we observe a continuance of the anxiety about the heart, vomiting, and convulsions. —

Women are more subject to this disease sometimes a hereditary and now I have a family disease. It is remarkable, it does not shorten life. I know a citizen of Philadelphia who lived to be 90, who had been afflicted with it for



40 years.

Its causes are local & general. The former are Amputation, polyuria, dropsy & effusion of the heart, or a disease in some of the large blood vessels that are contiguous to it. Syncope from these causes <sup>is for the most part</sup> ~~and is~~ incurable. It may be known by its not having any ~~so~~ long remissions, and by being induced by light causes.

The general causes are such as act upon the whole system. These are

- 1 Profuse natural or artificial hemorrhages.
- 2 Great inanition from any cause.
- 3 Excessive pain, or the <sup>sudden</sup> ~~cessation~~ of it.
- 4 violent emotions of the mind.
- 5 Disagreeable sights & fatid Odors.
- 6 Certain Antipathies to things not naturally

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disagreeable.

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7 Offensive matters in the stomach such as putrid bile, and indigestible Aliments.

8 Great heat.

9 Drinking cold water, or any other cold liquor when the body is unusually warm.

10 Contagious & emanative exhalations acting suddenly upon the body.

It is only when Syncope arises from these general causes that it does <sup>not</sup> <sub>↑</sub> happen the duration of life.

The Remedies for Syncope divide themselves into two Classes.

& Such as proper in a paroxysm of the disease.

1 Such as proper to prevent its recurrence  
To the head belong

Deprep.

1 A recumbent posture with the head a little &  
2 Fresh Air. This must be obtained by

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opening doors & windows, and permitting as  
few persons as possible to be near the person  
affected. 3. Cold water sprinkled on the face.

4 Applying stimulating substances to the nose  
such as volatile salt, snuff & burnt feathers.

5 Frictions to the whole body.

6 Stimulating injections into the bowels, &  
7 Stimulating applications to the feet, and  
other parts of the body that possess great sensi-  
tivity, or ~~possess~~ a strong & extensive  
sympathy with the whole body.  
~~before~~ water & the removal of all its exciting  
causes.

There are several cases of syncope which  
require specific & appropriate remedies in  
addition to those which have been mentioned.  
1 When the disease arises from great heat  
the remedies should the hands & feet should be  
put into ~~warm~~ water heated above the  
heat of the body.

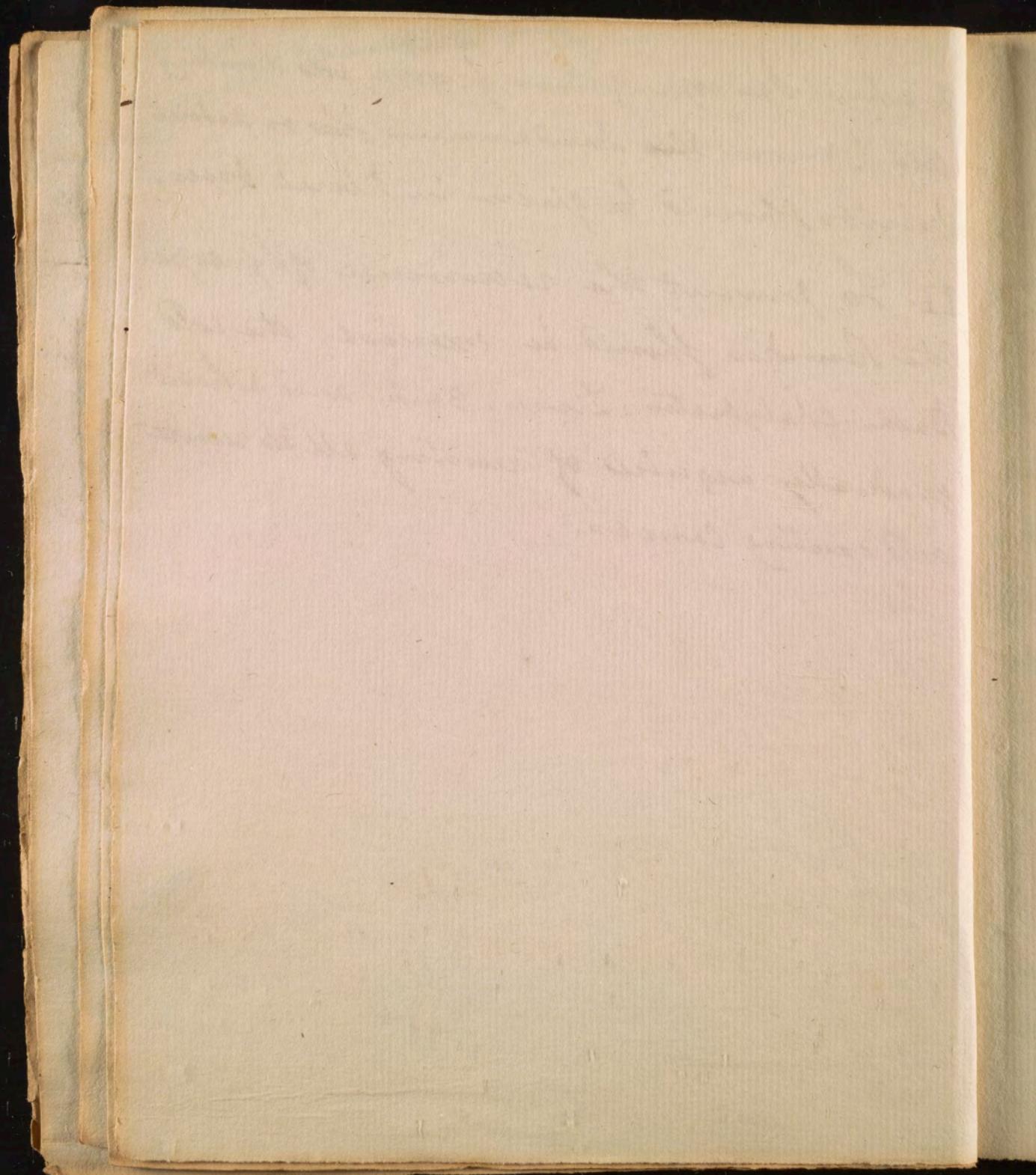
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2 when Syncope arises from cold drinking  
cold liquors, the Laudanum & a small  
spirit should be given in liberal doses.

II. To prevent the recurrence of Syncope  
the Remedies should be exercise, the cold  
Bath, Chalybrates, Lime, Bark, and a habit  
gradually acquired of resisting all its remote  
and exciting causes.



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on suspended animation.

There are two grades of apparent death. The first has been called by the common people, a Trance, the other Asphyxia. In the former the whole body apparently dies, except ~~that~~ <sup>those</sup> parts in which the sense of hearing, and the mind are seated, and which in consequence <sup>things</sup> still retain some degree of activity. As the disease generally comes on in the close of a fit of sickness at a time when the thoughts are wholly directed to the world of spirits, the mind in a trance from the habit it has recently acquired, continues to dwell upon the scenes of happiness or misery which it had anticipated, and which from its debilitated state it now supposes to be present. After such persons recover, they honestly relate



ulate as genuine visions or revelations, what they have dreamed, or seen only as mere illusions, or vivid exercises of the mind shut up in the brain. Or, if they are not induced by the previous train of thinking of the sick person, the conversations which <sup>usually</sup> take place in the same room with the apparently dead body, may suggest them, for they are generally upon subjects related to those which are supposed to be visions or revelations. A certain Thomas Say formerly of this city <sup>say</sup> who lay <sup>as a</sup> ~~in the~~ <sup>for some time</sup> situation of a dead man, after his respiration mentioned the names of two persons who had died while he was in that situation, one of whom he said he saw in a place of happiness, & the other in the state of misery. This ~~said~~ knowledge was

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inspired by himself, and his friends to be  
miraculously communicated to him in a  
supernatural manner, but there can be  
but little doubt but that heard their deaths  
spoken of in the room in which his body  
was laid out, and that he fixed them in the  
state of happiness and misery from his previous  
knowledge of their moral character, or from  
his having <sup>what they were</sup> heard of them <sup>from</sup> the persons  
who mentioned the amounts of their deaths.

In the ~~the~~ second grade of ~~dead~~ Resuscitated Animation  
~~it has been~~ which ~~for~~ called Asphyxia, there is <sup>a</sup> total  
absence of heat, sensation, and apparently  
of motion, as also of all the exercises of the  
mind. Its causes are

1. Offensive matters in the stomach. Half  
baked bread induced it in a gentleman of this



- 10
- city while on his travels in France.
- 2 Intense cold. Animals ~~that~~ sleep during the winter, are affected with Asphyxia.
- 3 Immersion in water. 4 Clanging. 5 Contagions & ~~the~~ exhalations of all kinds, par-  
-ticularly ~~such as do not affect the brain~~  
~~such as are of a~~  
~~both horrid & diabolical nature.~~
- 6 Lightning, 7 Intoxication & violent emotions and passions of the mind.

The following signs will serve to distinguish apparent death, from that which is real.

- 1 The absence of the pallid & contracted face of death.
- 2 The absence of stiffness in the limbs
- 3 The long duration of warmth upon the skin.  
There is sometimes a transient heat which succeeds the coldness of the skin, after death

and the people of the world, among them  
the English, Americans, French, and  
many others, were engaged, went back to  
the scenes of their former trials and  
triumphs. The English, who had  
been successful in their efforts to  
overthrow the French, now turned  
against the Americans, and the French  
now turned against the English.  
The English, who had been successful  
in their efforts to overthrow the French,  
now turned against the Americans, and the French  
now turned against the English.

11

which arises from ~~its~~ <sup>the</sup> passage of the heat  
internal to the external parts of the body.  
This heat soon passes away, and is very  
different from that which continues for  
12 or 24 hours after death.

5 Sweats on any part of the body.

6 The discharge of Urine & stools.

7 The appearance of Vapor upon a looking  
glass held before the mouth.

8 The appearance of motion upon the sur-  
face of a tumbler of water placed upon the  
nasiform Cartilage.

Life may be suspended with the ab-  
sence of all these signs, and death may be  
real where most of them take place. Of this  
I have seen several instances in the course



12

of my practice. ~~The body generally dissolution~~  
~~sho~~ All the signs that have been mentioned  
indicate partial life, and when not ~~in~~ <sup>scattered in very</sup> imitable  
parts, or connected with them by strong  
affinities, they soon perish, nor can life  
often be restored by the application of the  
most powerful stimulants to them.

~~The Remedy for better than goods of~~  
~~wood~~ I shall begin the cure of suspended  
animation by <sup>first</sup> mentioning the Remedy  
for what has been called Asphyxia. In  
doing so, I shall <sup>and</sup> take notice of such as  
are proper for it from its causes generally.  
It mentions such as proper for it from  
each of its causes.

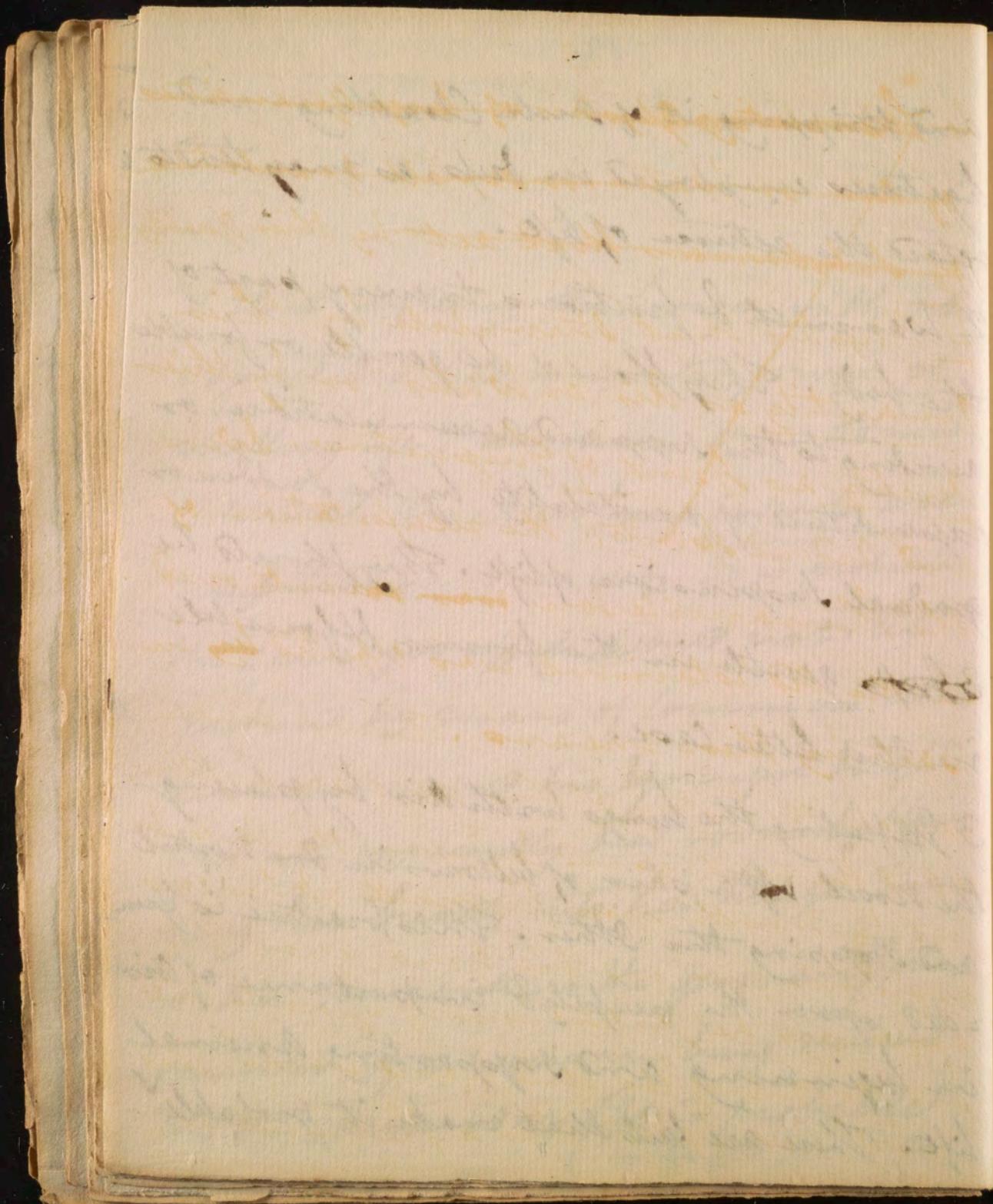
To the  
I had belong  
I placing the body in an easy & natural

V that inflating the lungs with re-  
=spired air has a greater power of  
reviving life, ~~than~~ than pure atmos-  
-pherical Air. newborn infants are  
resuscitated in this way. It is probable  
the same good effects would not be  
produced by means of common air.  
Linnæus revived his youngest daughter  
who was apparently dead born by blow-  
=ing his breath into her lungs. There  
is an account in the German Eph-  
-emerides of a woman being revived  
in the same way. It is probable  
go to 4<sup>th</sup>

and stripping it of such Cloathing, and ligatures employed in Drps, as may tend to retard the returne of life.

2 Warmth & frictions to every part of the body. They should be gentle or forcible, according to the supposed accumulation, or expenditure of excitability by the sudden or gradual suspension of life. They should be ~~stop~~ gentle in the former, & forcible in the latter case.

3 Inflating the lungs with air by placing the nose ~~in~~ a pair of bellows in one nostril, and stopping the other. This practice is founded upon the necessity & importance of Air in beginning and supporting Animal life. There are facts that make it probable

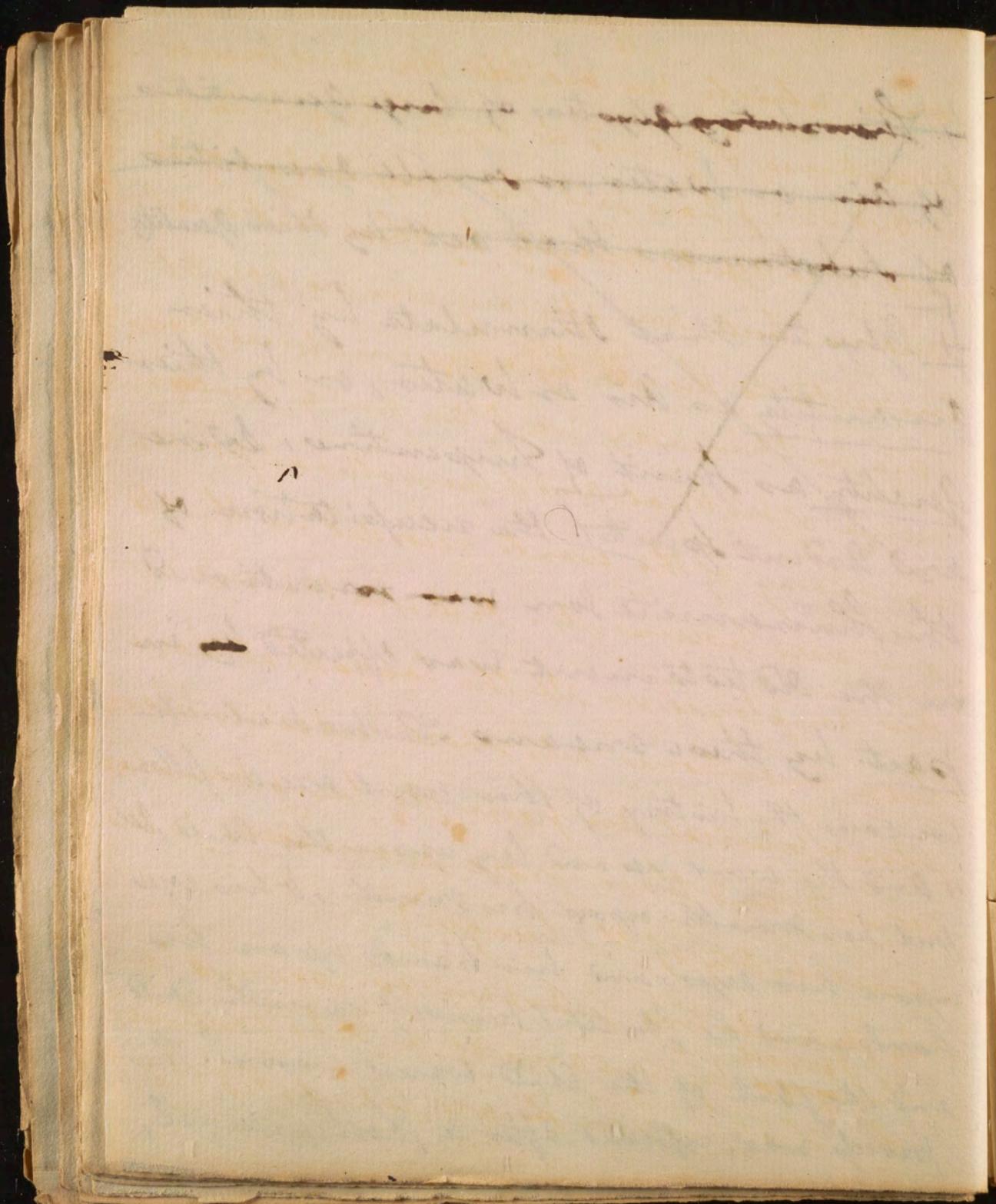


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~~4 Stimulating Phystics of large Quantities  
of Air or Water, or small quantities  
of Substances that act by their Quality.~~

~~4 Phystics that stimulate by their  
Quantity as Air or Water, or by their  
Quality as Spirit of Turpentine, Wine  
and Aromatic spirits. The respiration of  
the Phenarrite Son was mentioned  
in the Old testament was effected ~~by~~ in  
part by these means. The words which  
contain the history of this went are as follow.~~

"And she went up and lay upon the Child, &  
put his mouth upon his mouth, & his eyes  
upon his eyes, and his hands upon his  
hands, and he stretched himself upon the Child  
and the flesh of the Child waxed warm." This  
process was repeated after a short interval,



14

upon which we are told the child sneezed  
seventimes & opened its eyes." Kings 11. Ch 5.  
v. 34 & 35.. I have said the recuperation of this  
child was effected probably by these natural  
means, but an efficacy was no doubt  
imparted to them by a supernatural power.  
It is in this way we often find a concus-  
-sion of natural and supernatural power  
in many of the events recorded in the old  
and new testaments. Perhaps the respiration  
is employed in all the cases that have  
been mentioned with more certainty than  
atmospherical air from its being somewhat  
reduced, and thus more appropriated to the  
excitability of the lungs.)

4 Inhalating substances conveyed into  
the stomach by means of a tube contrived  
for that purpose so as calculated to

V 6 Stimulating applications to the ~~fles~~  
external parts of the body. I have read an  
account of a young man who had lain  
three days in a state of apparent death, being  
revived by pinching a large portion of his  
flesh. In this case the muscles were probably  
the last retreat of departing life. He did not  
survive until some <sup>day</sup> after the application of  
the remedy. ~~The parts that were~~ cutting the  
flesh should not be neglected in desperate  
cases. This remedy is suggested by the <sup>cases of</sup>  
~~treat~~ that are upon record of persons discov-  
ering signs of life, and even recovering after-  
wards from the first incision of a dissecting  
knife. If the cutting the flesh be objected to,  
boiling water may be applied to the skin.  
It will most useful - to the travel, breast &  
head.

15

excite and diffuse action over the whole body. This tube should be a little bent so as to enter into the Oesophagus thro the nose when it cannot be made to enter the mouth.

5 Gbysters rendered stimulating by their quantity such as Air or water, or by their quality such as Spirit of turpentine, wine or Aromatic Spirits. The importance of this remedy is suggested by the intestines being ~~the~~ in many instances the last retreat of the departing excretability of the system.

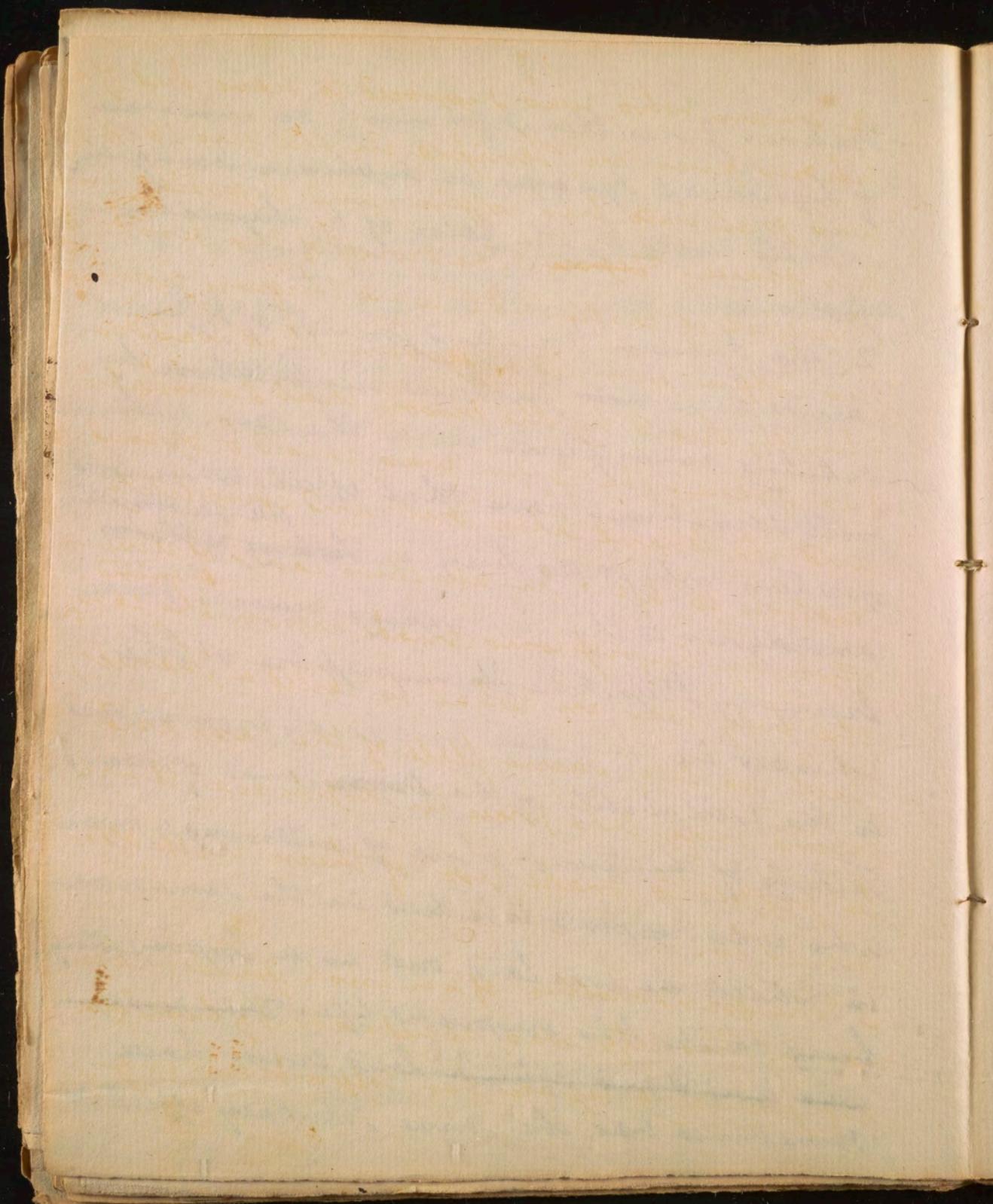
✓ Certain Stimulants applied to parts endowed with a peculiar & specific sensibility such as the nose, the ears, the lips, the skin, the Soles of the feet, ~~the hands~~ & the windpipe. In favor of ~~the~~ the efficacy of Stimulants to several parts I shall mention some corresponding facts.

1 certain Odors such as Vol. Salt, Asparatda, Garlic or onions have sometimes produced resuscitation when <sup>the Disease</sup> it has been free of a transient

V a ~~funeral hymn~~ ~~said~~ loud  
scream, & in one instance,  
~~screamed~~ a funeral hymn have  
recalled life when it was apparently extinct.

nature. I mentioned formerly an instance of hysterical syncope or asphyxia being instantly cured by the factor of a physician's foot.

2 The human voice and sounds of different kinds have also produced respiration by exciting impressions upon the ears. A whisper will sometimes have that effect, when loud speaking will do no service. <sup>We see something</sup> Talking ~~of the~~ <sup>of the</sup> analogous to this, in waking persons from ordinary sleep. The impression of the whisper in this case is exactly proportioned to the excitability of the ~~the~~ sense of hearing. Talking of the time & place of interesting a person who was supposed to be dead in the same room in which he was laid out as a corpse, suddenly being excited his suspended life. This person ~~was lived & died~~ <sup>Afterwards</sup> loud voices have sometimes had the same salutary effect. V



17

a man who was supposed to have died of a bilious fever in Tennessee in the year 1812, was put into his coffin, and deposited in his grave. Upon the voice of the first spadeful of earth that was thrown upon his coffin sounded a groan that was distinctly heard by the person that surrounded his grave. The coffin was raised & opened, and its tenant taken out, and completely restored to life. In all these cases of resuscitation by impressions made upon the <sup>mind</sup> coffin, the body was in what is called a lame, but as the same state of the case and mind may take place in Asphyxia, it will be proper to make use of them with other remedies.

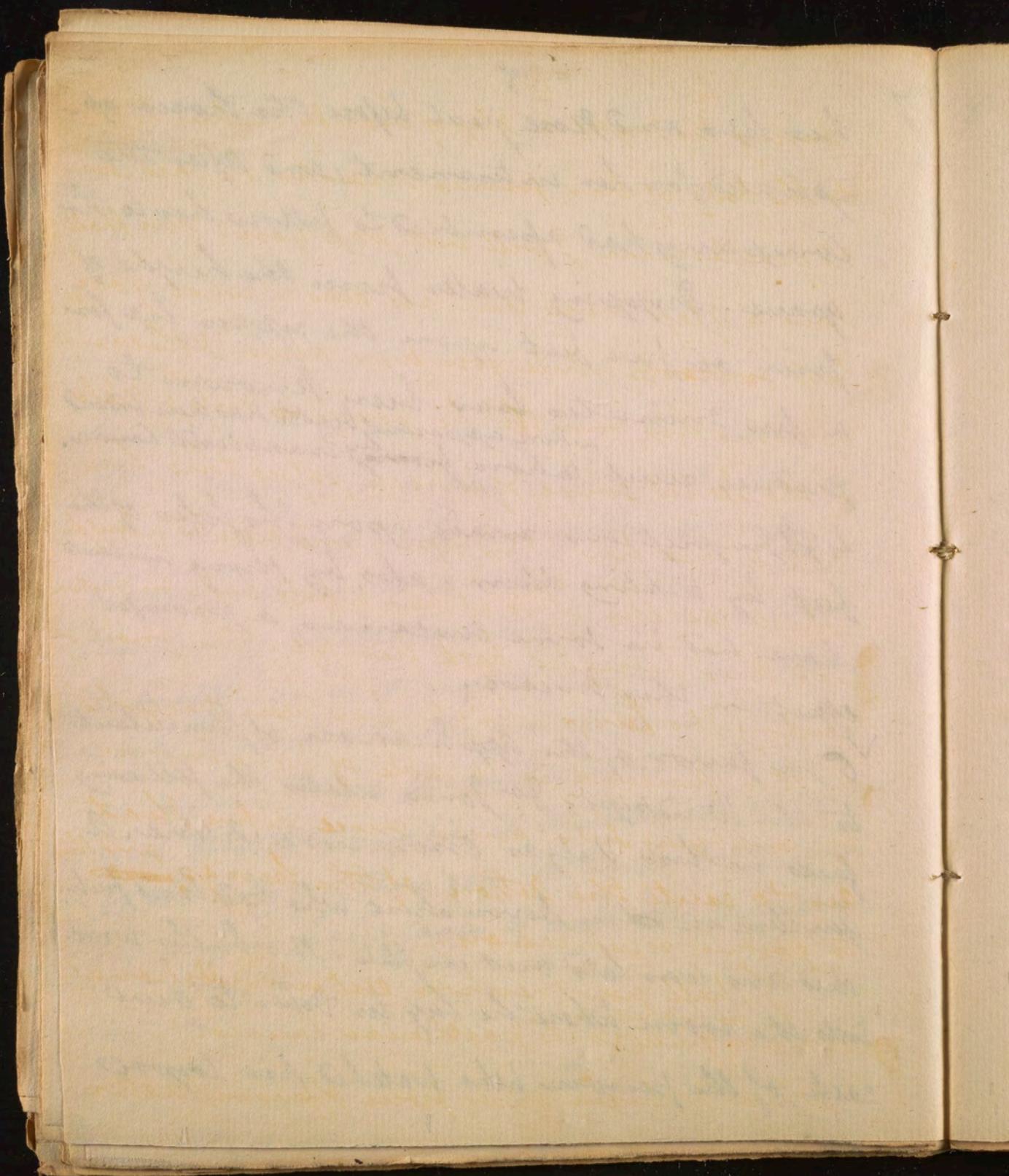
3 The grandmother of an Irish Gentleman now of this city was resuscitated by her lap dog jumping upon her coffin & licking

5 V There is a degree of specific sensibility  
in the gravel. ~~Let one of the inspired~~  
~~splendor~~ ~~writers~~ alludes to it when he compares  
"the fear of the Lord, and departing from evil"  
to "health"; or as it ought to have been trans-  
lated <sup>to</sup> "medicine to the gravel" from which  
it appears that formulating medicines  
were formerly applied to ~~the~~ <sup>that</sup> part  
of the body. — There can be no doubt of their  
efficacy in light cases of suspended animation.

7 her lips and nose just before the hour appointed for her interment, and after the company had assembled to follow her to the grave. Dropping water from the height of four or five feet upon the upper lip for a few minutes has been known to produce respiration <sup>when apparently death has been induced</sup> <sub>or by transient causes.</sub>

4 Impressions made upon the soles of the feet by tickling them, also by strong irritants have had in some instances a prompt effect in this disease.

✓ 6 In favor of the application of stimulants to the Windpipe, Dr. Jones relates the following facts in his Vulgar Errors in Medicine. A gentleman ~~is~~ in Devonshire who had lived fully, died and was laid out in state. His brother went into the room where he lay in order to give each of the persons who watched his corpse



during the night a glass of brandy. When he came to the body of his former master he said "Come old gentleman I will not pass you. You shall have a glass now you are dead of what you loved ~~so much~~ while you were alive" & then opening his mouth he poured it into a glass of the spirit some of which passed thro' his glottis into his windpipe, and excited a cough which set the blood of his whole body in motion, and thus brought back his life. The mode of exciting the lungs which has been suggested by this accident is capable of being improved by employing substances more active than air to excite the action of the lungs, ~~and thus~~ to produce resuscitation.

I shall now mention certain additional remedies <sup>for Asphyxia</sup> related to its particular causes.

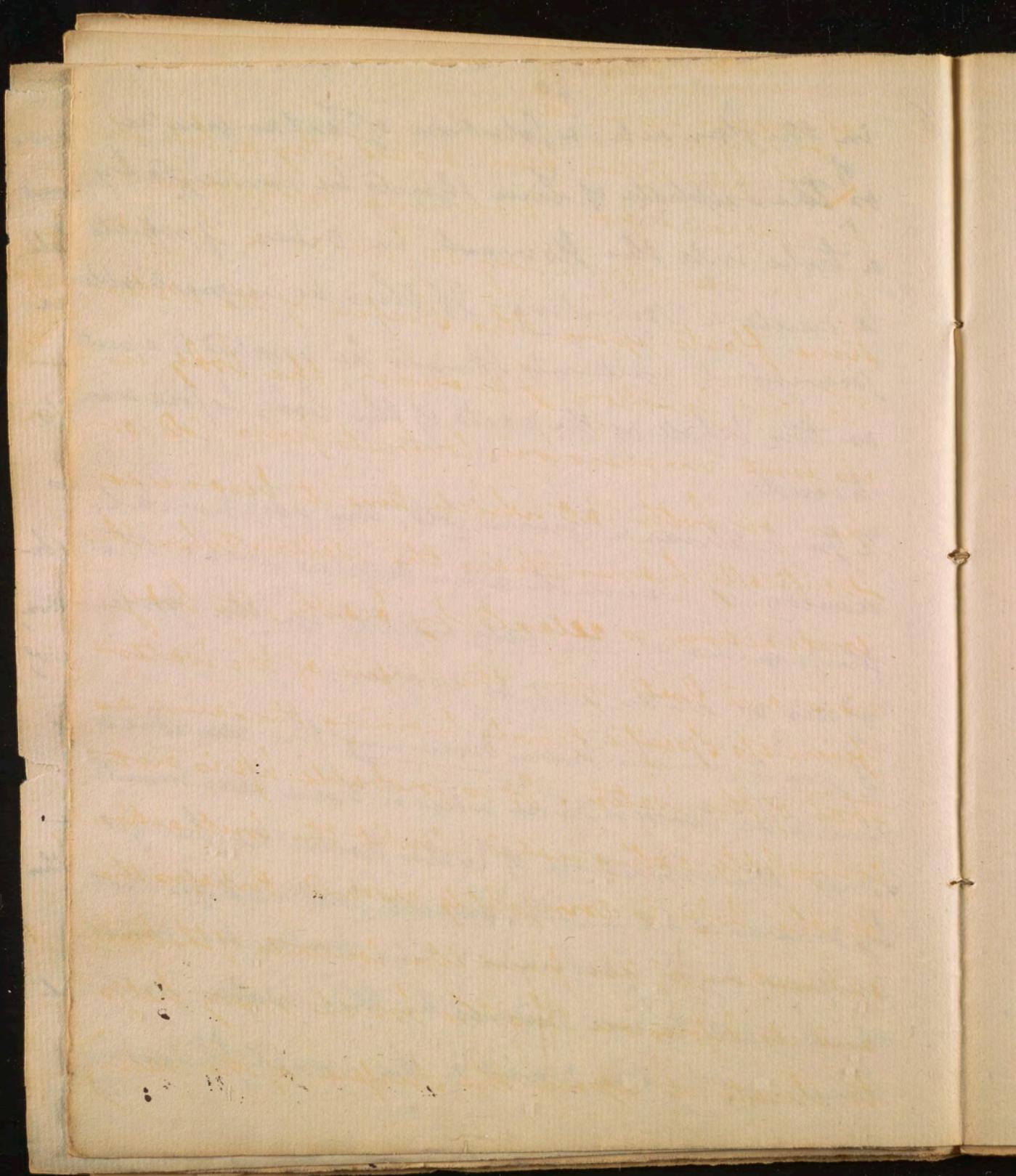
1 When Asphyxia arises from Offensive Matter



in the stomach, a solution of Tartar emetic,  
or the Sulphate of Lime should be conveyed by  
a tube into the stomach in order if possible  
to excite a Vomiting. If this be impracticable,  
powerful irritants should be applied to a part  
or the whole of the parts of the body before men-  
tioned.

2 In Asphyxia from Cold, the additional  
remedy, of warmth a few degrees above the  
temperature of the body applied in the form  
of air or water will be proper.

3 In asphyxia from drowning the remedies  
should be besides those which have been men-  
tioned, the extraction of water from the lungs  
by means of an instrument contrived for that  
purpose by Dr Goodwin. The Doctor has proved  
that death is not induced by this water in the  
lungs, but by the want of the usual stimulus



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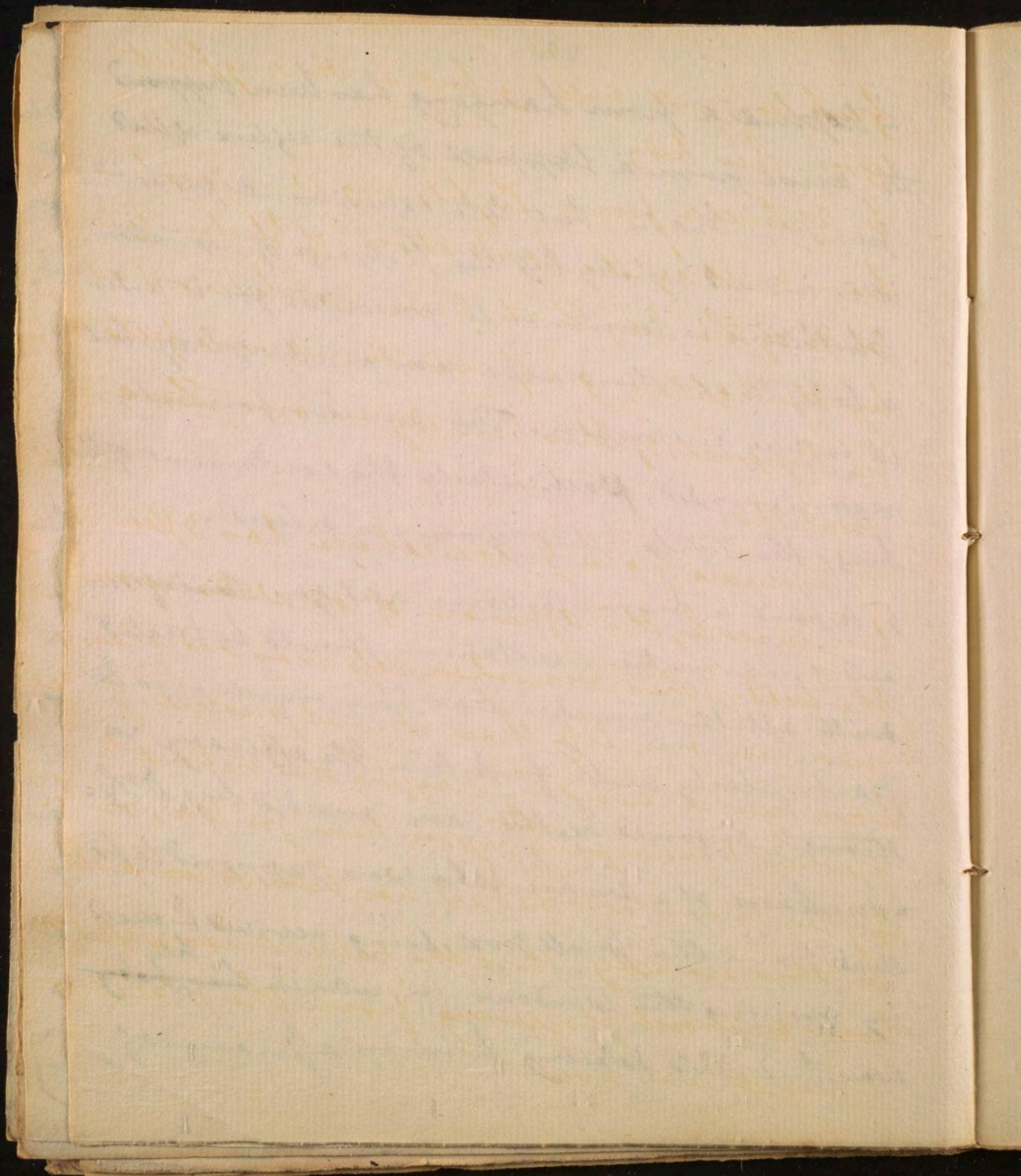
of oxygen upon them.

[It has often been asked why a body which has perished from drowning, first sinks, & in the course of a day or two, or a longer time floats upon the surface of the water. To this question I answer, the body in its first immersion contracts from cold, or fear, or both, at which time it becomes specifically heavier than the water. When this contraction is relaxed by death, the body rises and floats upon the surface of the water from its specific gravity becoming the same as that of the water. It is probable life is not completely extinguished, until the contraction of the body is completely resolved. Perhaps the extraction of air from the contents of the bowels and its diffusion thro' the bowels may help to elevate it upon the surface of the water.]



4 Asphyxia from hanging has been supposed to arise from a stoppage of the reflux of blood from the brain, but late experiments prove that it is induced wholly by the stoppage of respiration. Bloodletting is commonly prescribed for it under a belief that the disease was an Apoplexy, but it is very improper. The emetics formerly recommended, particularly the excitement of the lungs should be relied upon for a cure.

5 Asphyxia from Carbuncle and gas, contagious and miasmatic exhalations should be treated with all the remedies that have mentioned & particularly with fresh air. Its efficacy is strongly enforced by the case recorded by Dr. =Durham of a man who was supposed to be dead from the small pox, being revived & cured by opening the windows in which ~~he~~<sup>he</sup> was laid, and placing him in a stream of



fresh air with nothing but a winding sheet upon his body.

In asphyxia from lightning it is said has been cured by the application of Electricity to parts of the body that have not been injured by the lightning. I mentioned some facts in support of this remedy in our Thera-peuticks.

In asphyxia from Intoxication has often been cured by the affusion of cold water upon the head. When drunkenness was more common in our City than it is at present, I have seen it cured by dragging the patient to a pump & pumping <sup>water</sup> upon him for ten, or fifteen minutes. The cure has been so complete by this remedy, that the patient has walked home without staggering from the place where it was used.

10

8 Asphyxia from violent convulsions of mind require no ~~spec~~ other remedies than those mentioned under our general head.

After a ~~interval~~ of recovery from Asphyxia, the System sometimes reacts with so much force, as to require bleeding to reduce it. This should never be omitted when indicated. From neglecting it, Chronic Diseases & death have sometimes followed a supposed cure of apparent death.

I have thus mentioned all the usual Remedies for Asphyxia, & some new ones. I shall only add that they are not proper in the ~~number~~ number of cases.  
The same remedies are often used for what is called a Fracture, but very

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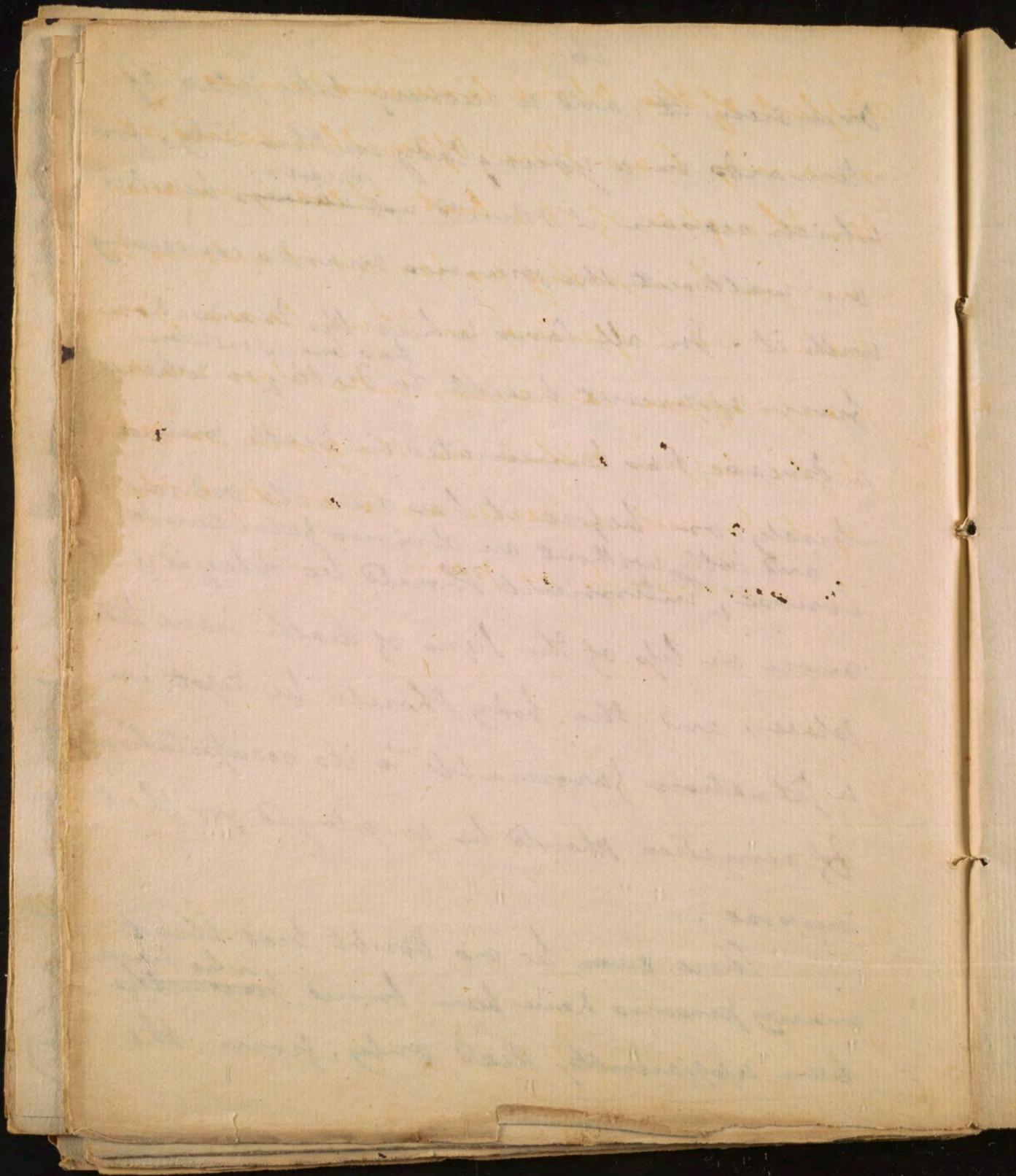
improperly when it follows a chronic disease, or an exhausted state of the excitability of the system. The most lenient stimulants only are proper in these cases. Perhaps in most cases it would be safest to leave the patient in a warm bed, and in an airy room, wholly to the influence of the ordinary stimuli that support animal life.

The signs of death are 1 a clamminess of the skin, 2 an acid or alkaline odor issuing from the body. 3 a total relaxation of the Sphincter Ani, & 4 the factor which accompanies putrefaction. This factor, <sup>I acknowledge</sup> sometimes takes place in malignant fevers without being followed by death. Sir John Pringle takes notice of it. I have



one sees it, and a recovery take place af-  
-towards in a young lady in this city, for  
which reason it should ~~not always~~ <sup>never</sup> be relied  
on without the previous marks concerning  
with it. In all cases where the transition  
from apparent health to death <sup>has been sudden</sup> or where  
a disease has terminated in death prema-  
-tarily, or before it has run its ordinary  
<sup>and both without an obvious fatal cause,</sup>  
course, interment should be delayed until  
more or less of the signs of death have taken  
place, and the body should be kept in  
a situation favorable to its resuscitation,  
of remedies should be employed for that  
purpose.

There can be no doubt but that  
many persons have been buried, <sup>who have</sup> ~~before the~~  
been apparently dead, only, from the



neglect of the above circumstances. Hu-  
manity was often often shuddered at  
the thoughts of it, but there is no occa-  
-sion for sympathy as far as it relates to  
pain and suffering in these cases, for  
resuscitation can never take place in a  
tight coffin either in the grave or out  
of it to such a degree as to excite either  
consciousness, or pain. —

